THE REPUBLIC OF THE UNION OF MYANMAR

MINISTRY OF ELECTRIC POWER

Public-private partnership development in Thermal Power Generation

Thermal Power Department
Myanma Electric Power Enterprise

Naypyitaw

DATE: 3-6-2015

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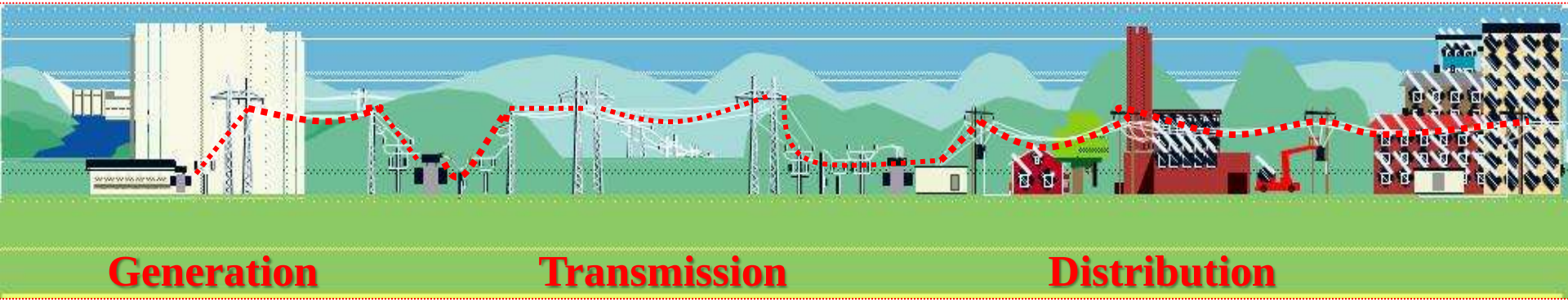

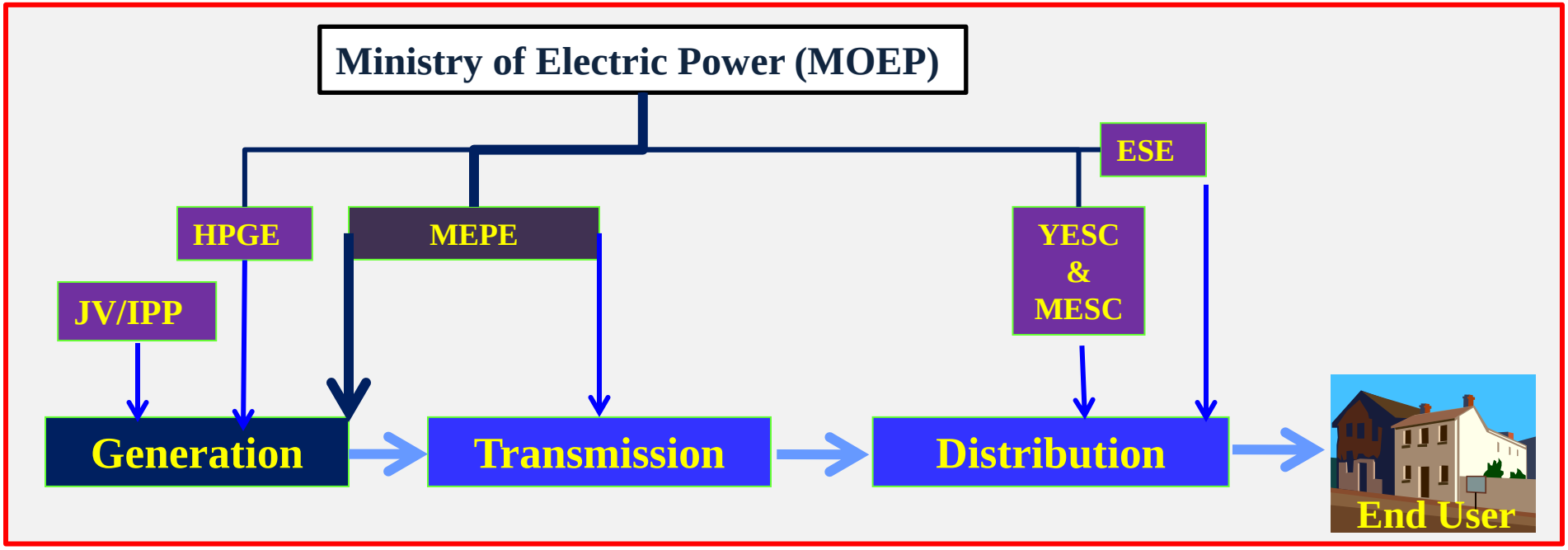

HPGE (Hydro Power Generation Enterprise),
ESE (Electricity Supply Enterprise),
MEPE (Myanma Electric Power Enterprise)
YESC (Yangon Electricity Supply Corporation)

Policies for Electric Power Sector

- To generate and distribute more electricity for economic development.
- To conduct Environmental and Social Impact Assessments for power generation and transmission in order to minimize these impacts.
- To reduce losses and conserve electric energy for future energy sufficiency.
- To promote electricity production from new and renewable energy sources.

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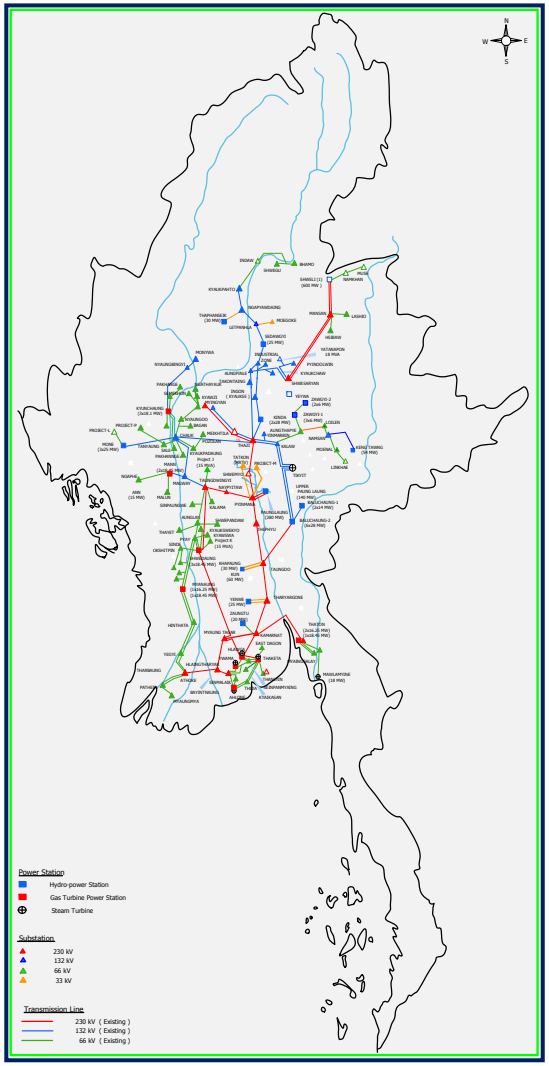

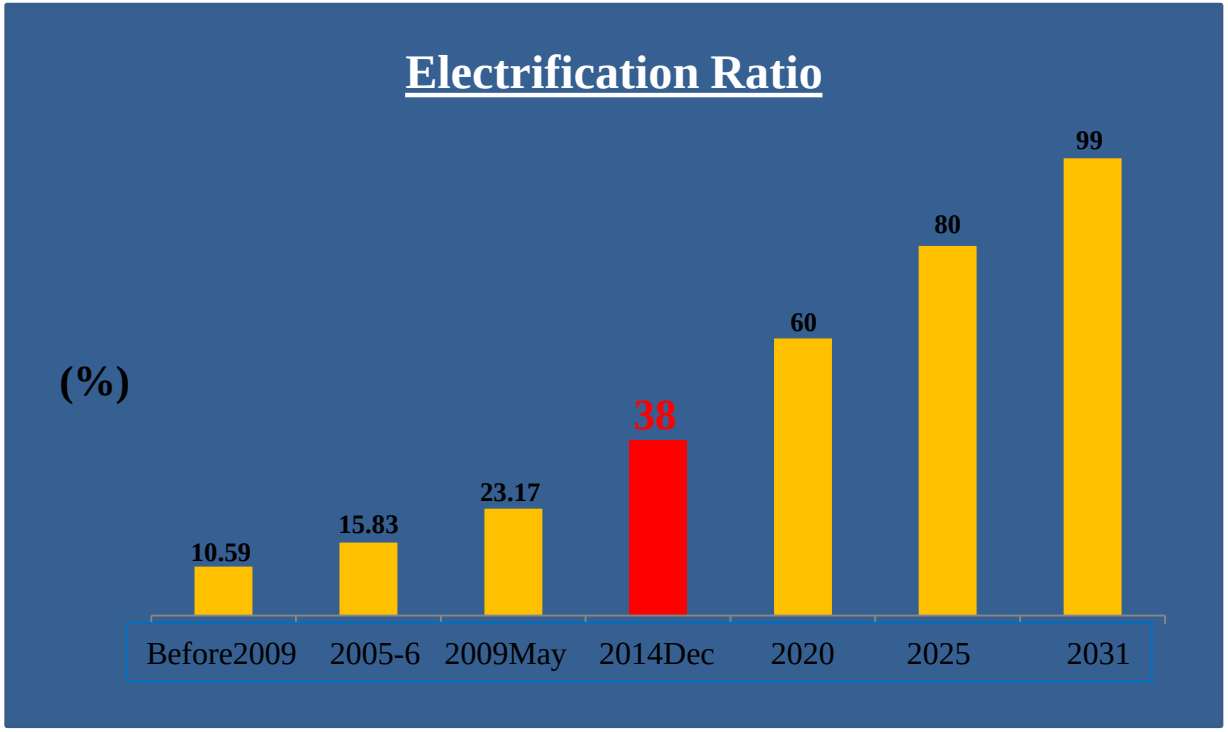

Area:	676,578 Sq Km
Population:	51.4 million

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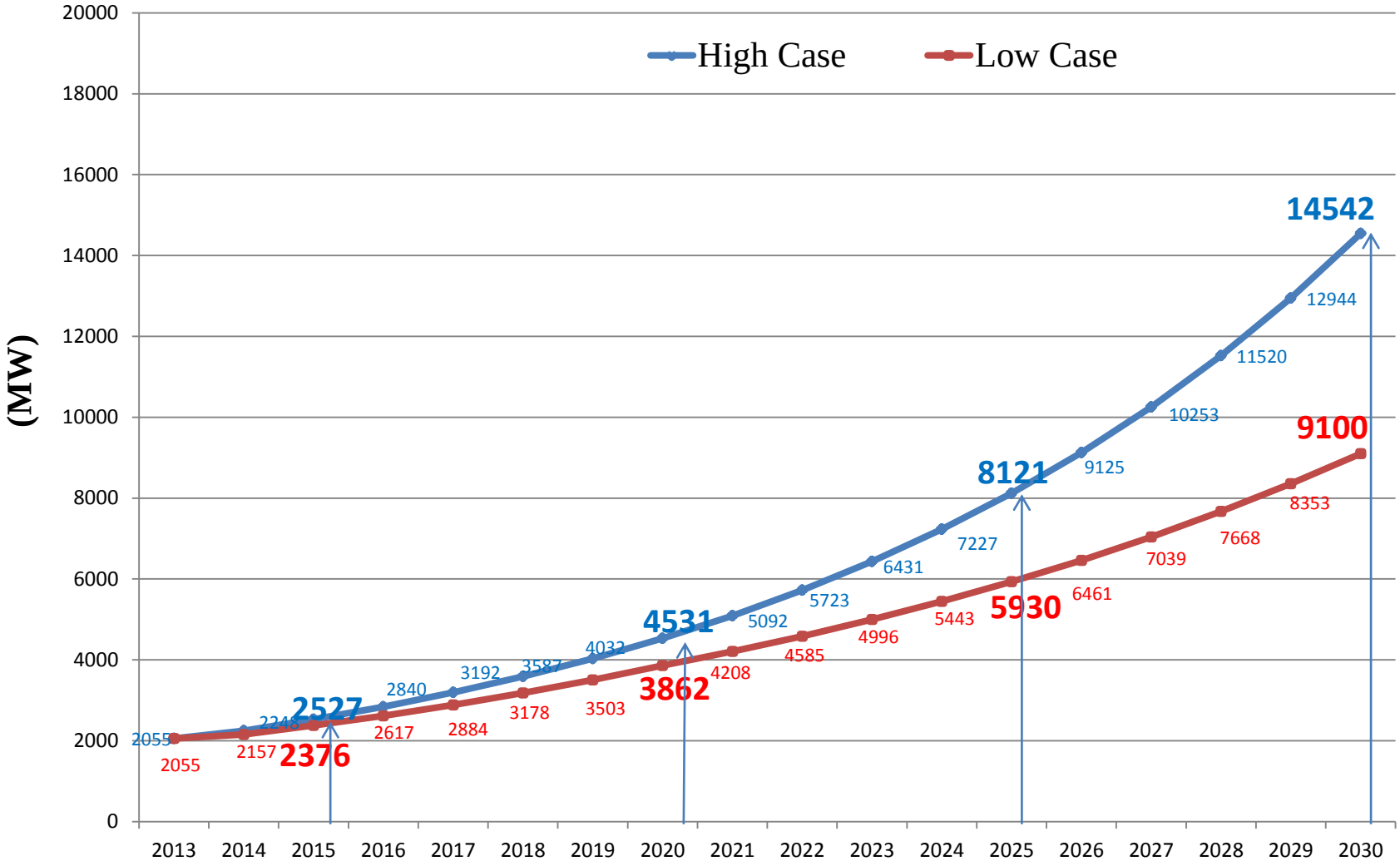
Demand Forecasting for Myanmar



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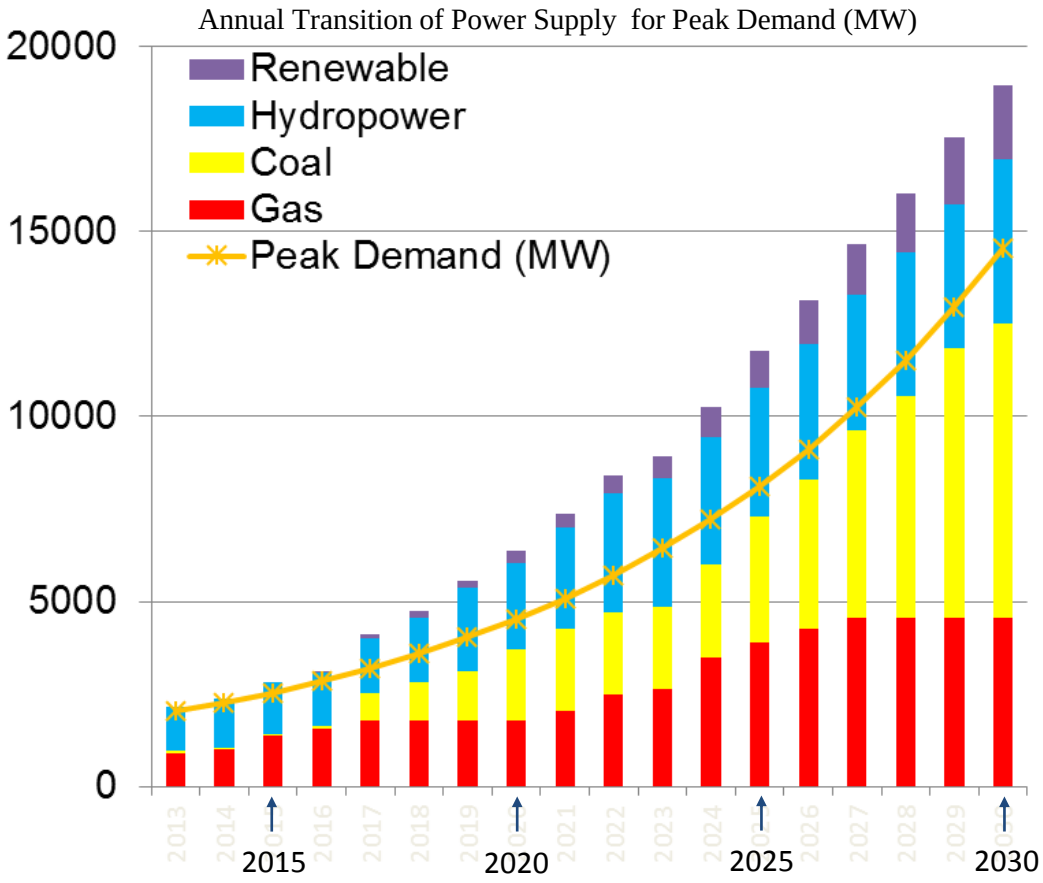
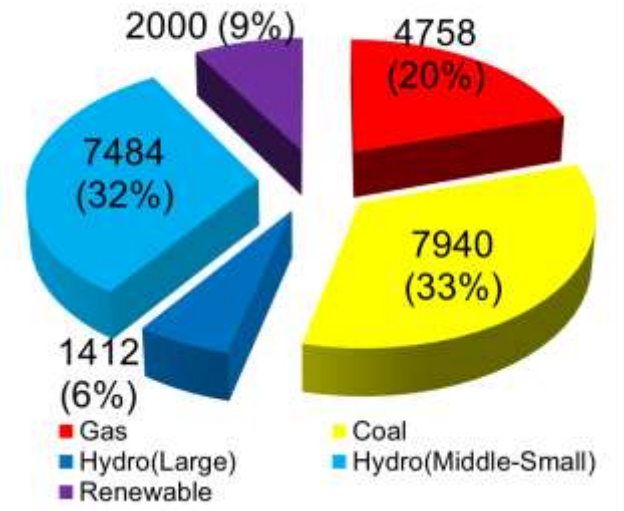
Installed Capacity and Power Supply



Power Resources Balance Scenarios

Installed capacity (23.594 MW)
for Myanmar 2030



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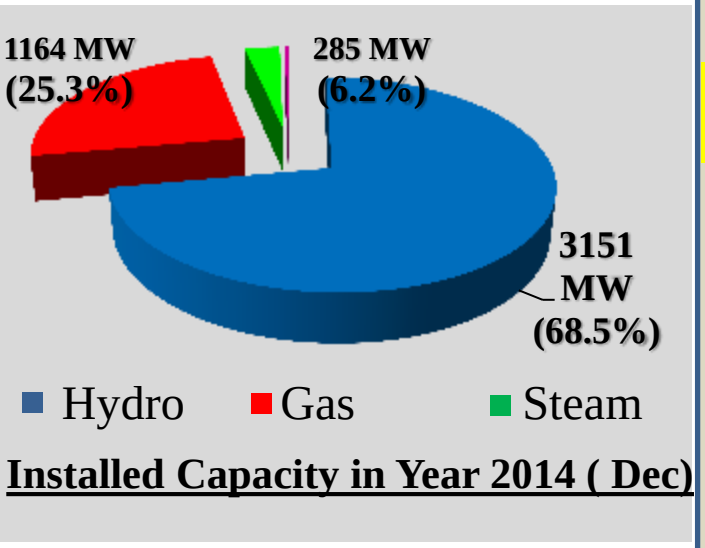
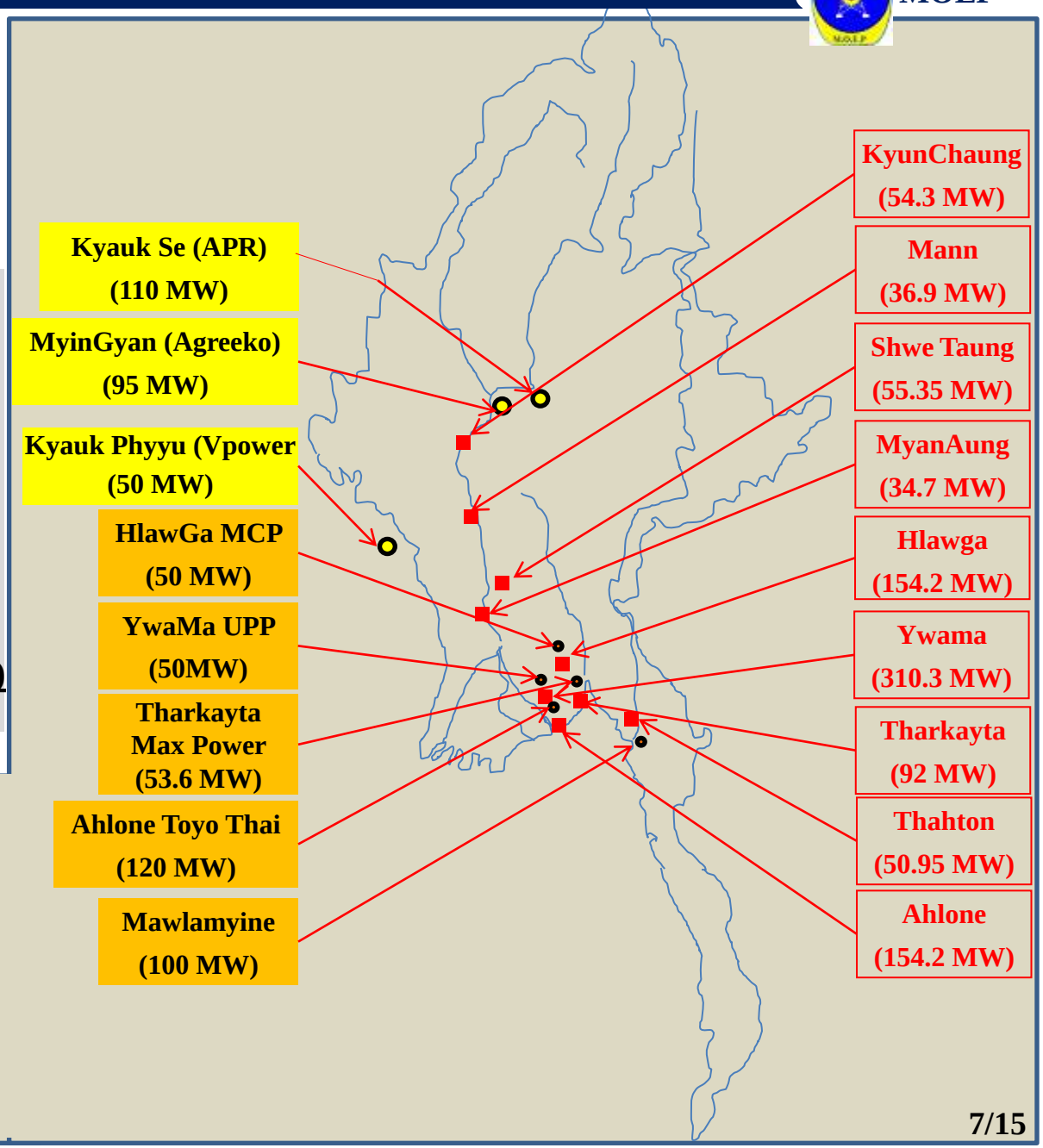
Locations and Installed Capacit of Natural Gas Power Plants in Myanmar

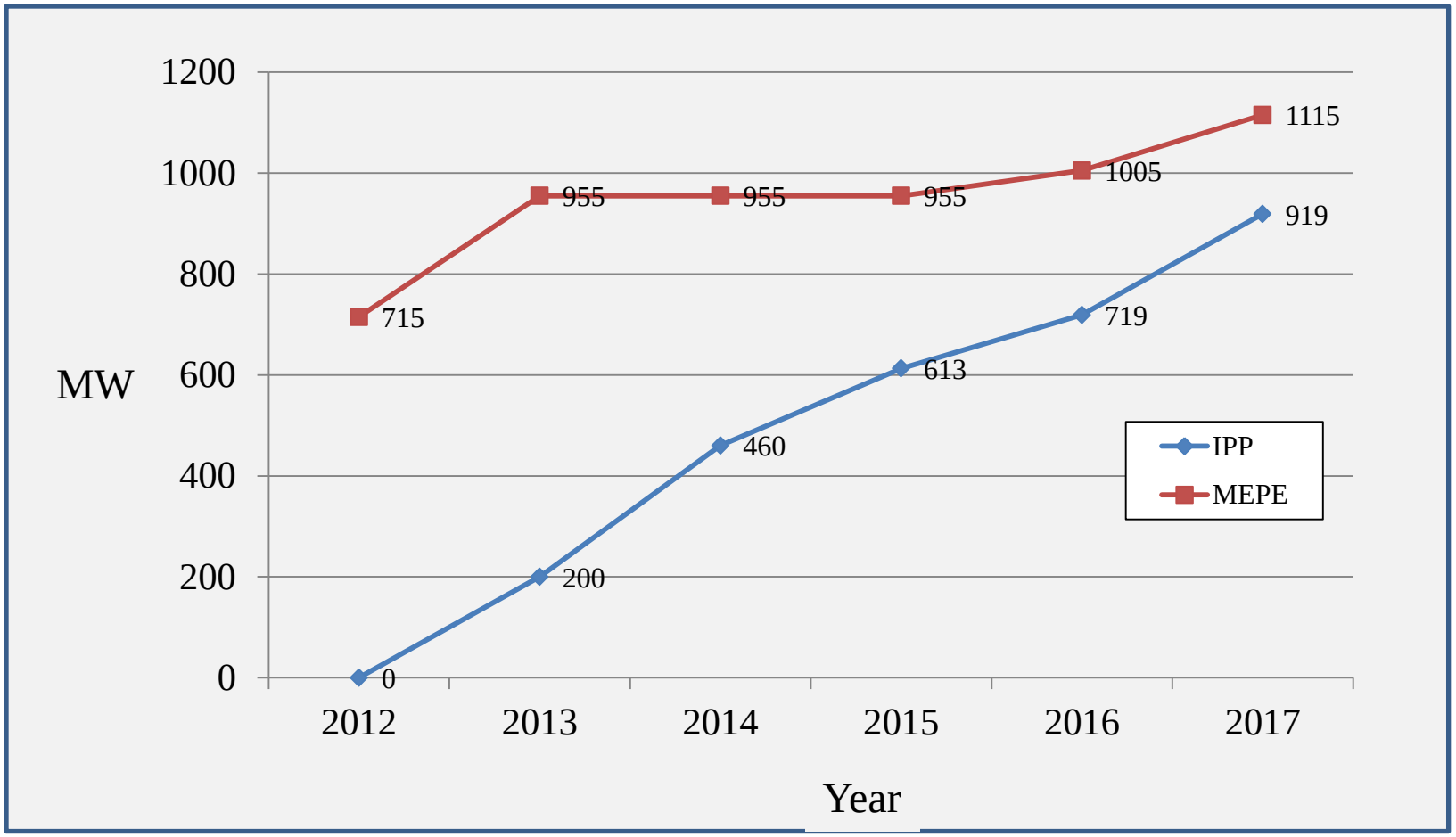


Installed Capacity in Year 2014 (Dec)



- MOEP own Power Plants
- IPP Power Plants
- Generating Gas Engine
- Rental Power Plants

Installed capacity of IPP thermal power plants (Natural Gas)



Installed capacity of IPP are increasing.

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Projects Selection Process and Financing for PPP

Types of Project Selection Process used in Myanmar

Present and Previous
1. Tender and Direct Agreement Process

For future
2. Tender Process

Financing

1. Government budget
2. Grant
3. Soft Loan (from World Bank, Jica, etc.)
4. Deferred payment
5. Loan (from international banks)

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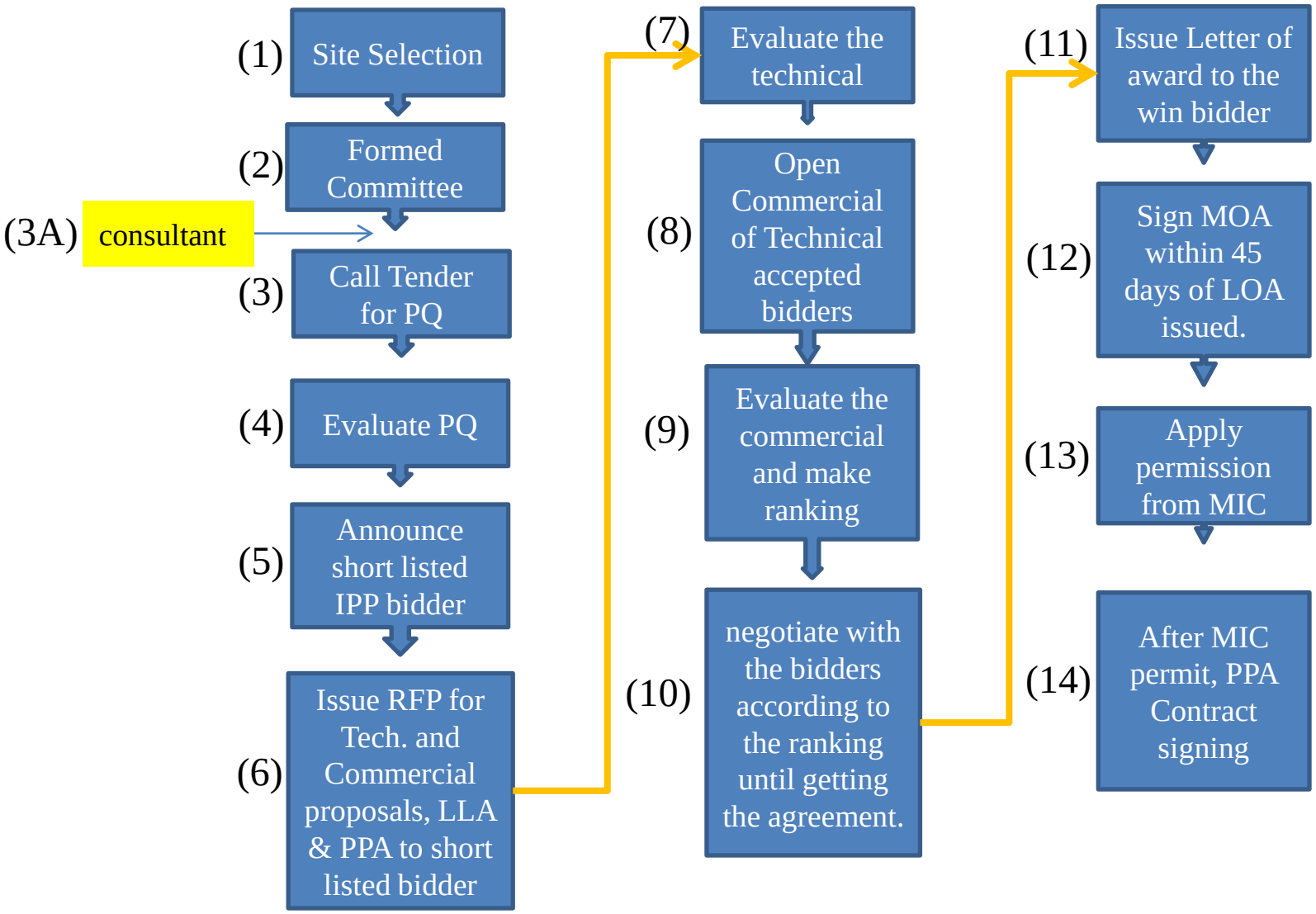
Procedure for implementation of IPP projects



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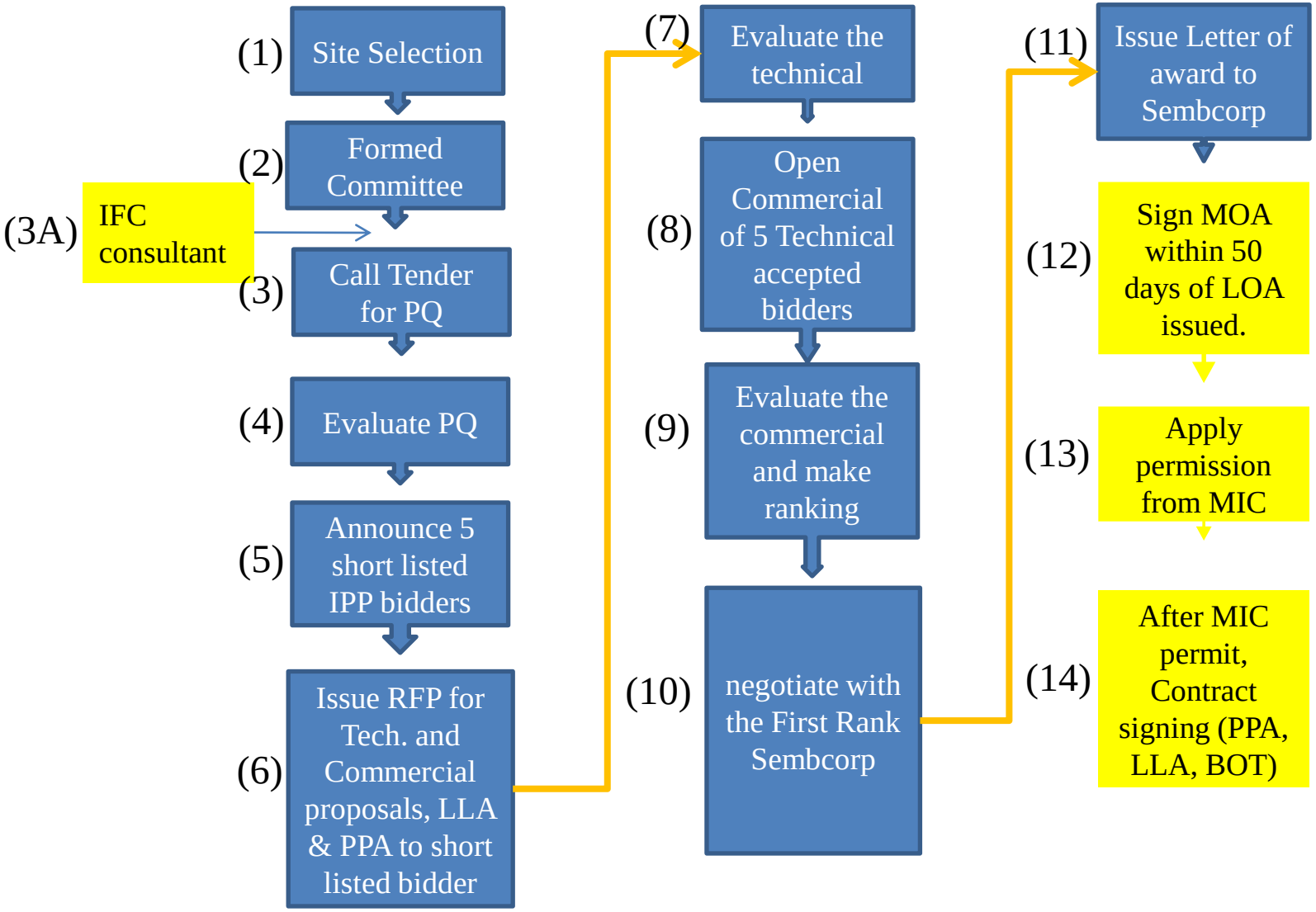
Procedure for implementation of Myingyan 200 MW IPP project



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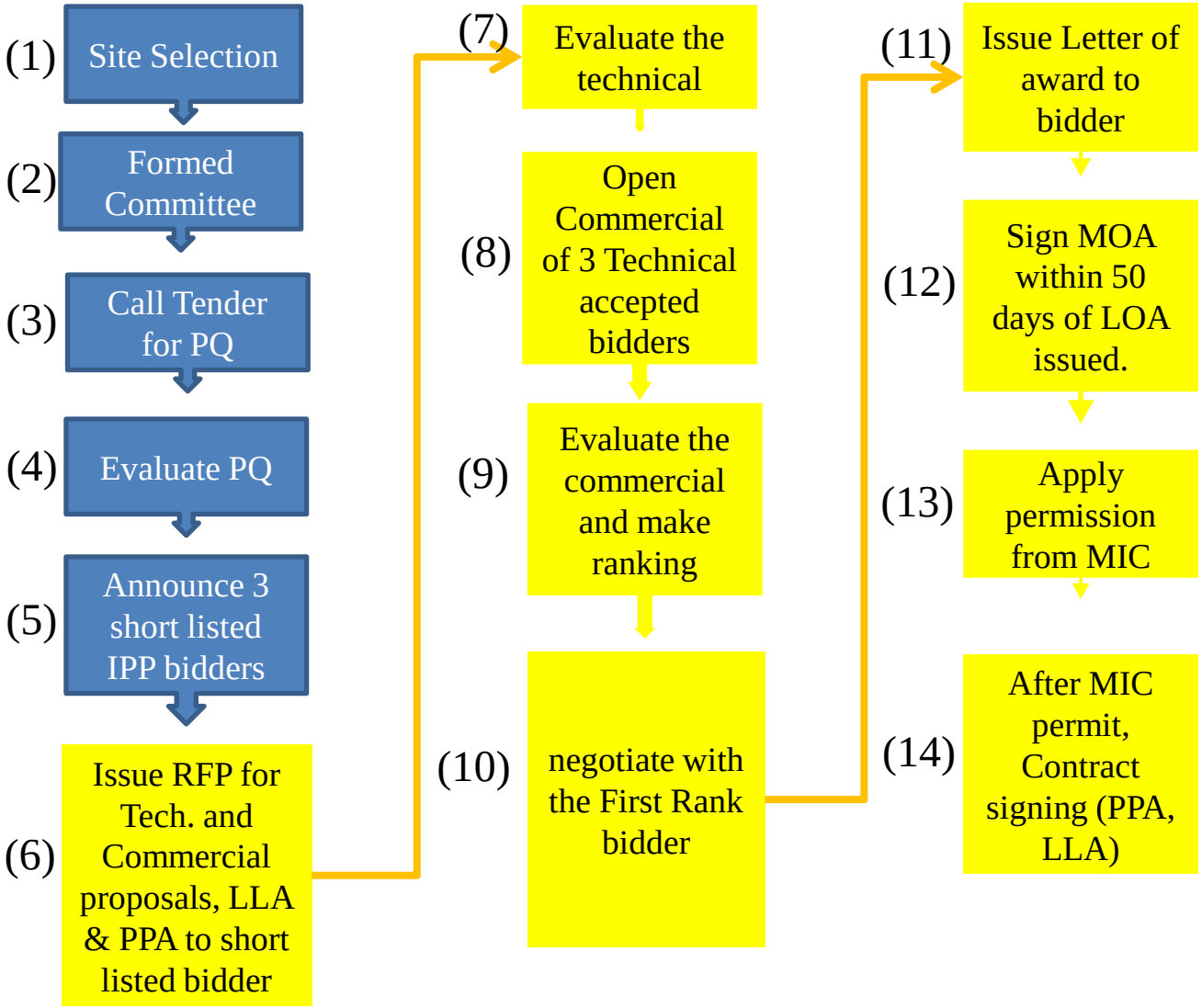
Procedure for implementation of Shwetaung 50 MW IPP project



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PPP possible

To Increase power generation in Myanmar for coming years

With Limited Gas Allocation

Uprating

- Uprate existing MOEP owned gas turbine (or) Combined CCPP to get better efficiency (Life of most Gas turbines owned by MEPE are over 30 years.)

OR

- Choose IPP with higher efficiency Machine

Renewable Energy

(Solar to generate from 2017)

To full fill the power supply at peak demand (night time, cannot be considered.)

Import Fuel

To hire power barges or power plants, those can generate with various fuel types, Supplier needs to take responsible for Fuel that can buy from international market for short term.

Conclusion

- More power generation is required to meet the power demand for economic development.
- To reduce losses and conserve electric energy for future energy sufficiency, the existing thermal power plants should be uprated and IPP with the higher efficiency machine shall be selected.
- IPPs shall participate in the promote electricity production from new and renewable energy sources.

THANK YOU